EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

HSH-D

Mechanical Seals | Agitator seals | Liquid lubricated seals

Features

- For top entry drives
- Double seal
- Balanced
- Independent of direction of rotation
- Multiple springs rotating
- Liquid-lubricated
- Cartridge unit

Notes

Options:

- Cooling resp. heating flange
- Leakage drain
- Flush
- Polymerization barrier

Advantages

- Ready-to-fit and factory-tested unit
- With or without bearing available
- Patented hydrodynamic grooves
- Designed for high pressure range
- Connection dimensions to customers' requirements
- ATEX certification on request

Operating range

Shaft diameter:
d1 = 20 ... 500 mm (0.79" ... 19.69")
Pressure:
p1 = vacuum ... 250 bar (... 3,625 PSI)*,
p3 = p1 +10 %
Temperature:
t1 = -40 °C... +200 (350**) °C
(-40 °F ... +392 (662**) °F)
Sliding velocity:
vg = 0 ... 5 m/s (0 ... 16 ft/s)

* Depending on size, from 100 ... 150 bar (1,450 ... 2,175 PSI) executed as tandem seal (pressure reduction in 2 stages).
** with cooling flange

! It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction.

Materials

Seal faces: Carbon graphite
Seats: Silicon carbide, FDA conform
Secondary seals and metallic parts acc. to application and customers' requirement.

Standards and approvals

- FDA

Recommended applications

- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Reactors
- Agitators
- Special rotating equipment with top entry drive

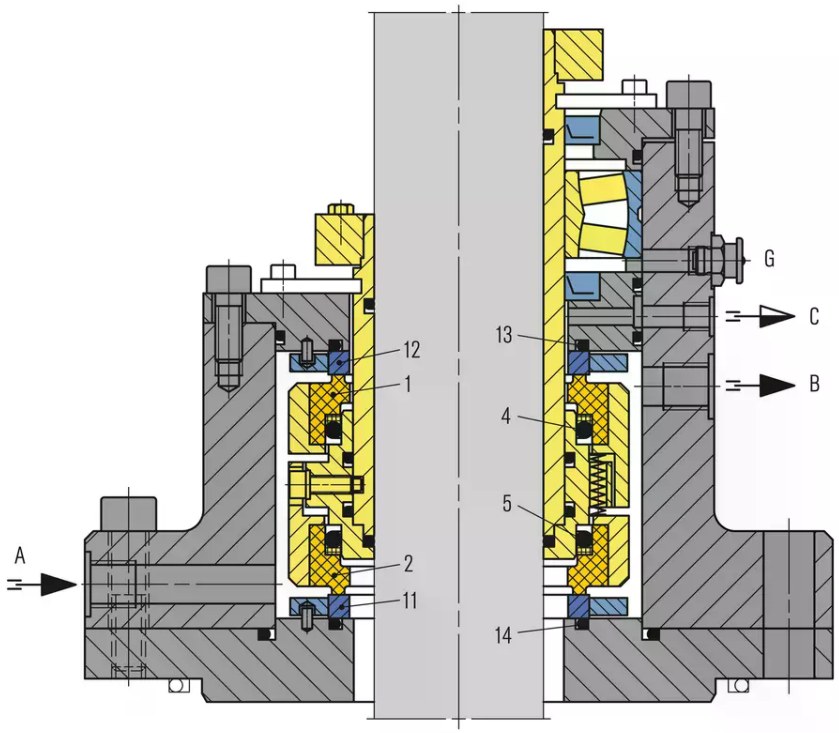
Recommended piping plans

Open circuit
e.g. EagleBurgmann SPA, EagleBurgmann SPN

Product links:
EagleBurgmann SPA
EagleBurgmann SPN manual
EagleBurgmann SPN automatic

eagleburgmann.com
info@eagleburgmann.com

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



Item no.	Description
1	Seal face, atmosphere side
2	Seal face, product side
4, 5, 13, 14	O-Ring
11	Seat, product side
12	Seat, atmosphere side

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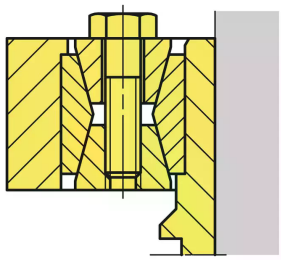
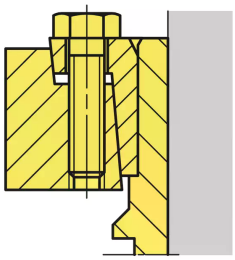
Torque transmissions

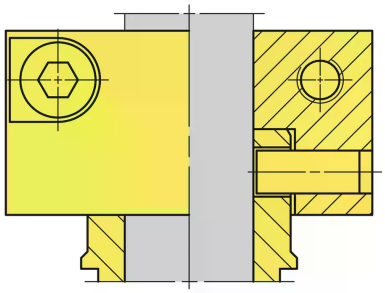
Clamping set



Shrink disk



Clamping ring with pin



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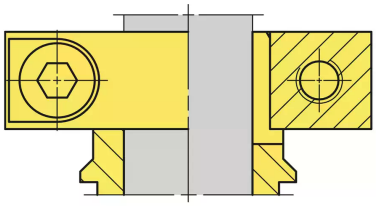
Clamping ring



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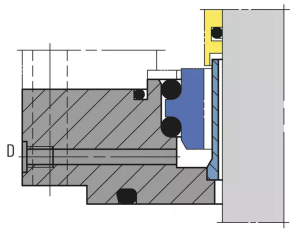
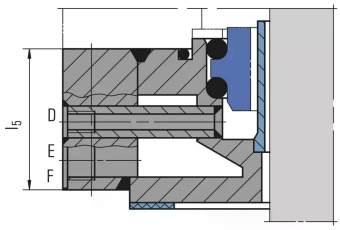
Installation, details, options

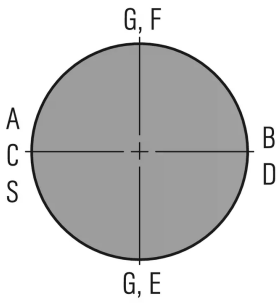
Leakage drain
Can be used alternatively as a flush.



Leakage drain with cooling flange
Can be used alternatively as a flush or as a heating flange.



Supply connections
A Barrier fluid IN
B Barrier fluid OUT
C Drainage
D Leakage drain
E Cooling IN
F Cooling OUT
G Grease
S Flush



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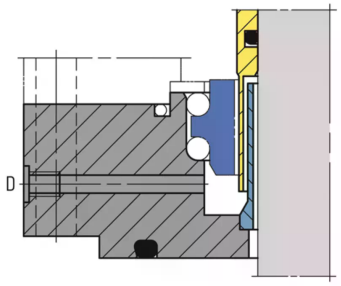
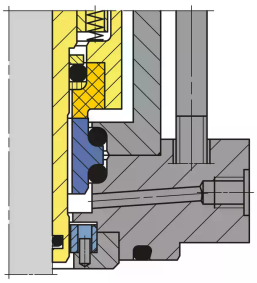
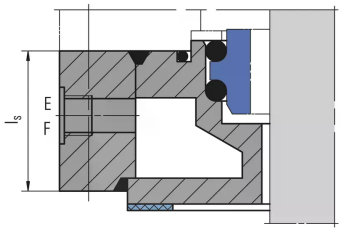


Polymerization barrier
Can be used alternatively as a leakage drain or a flush.

Flush



Cooling flange
Can be used alternatively as a heating flange.



Product variants

HSH(V)-D
Double seal

HSH(V)L-D
Double seal with integrated floating bearing (axial thrust bearing on request).

These seals are designed to be self-closing on the product side, i.e. they will remain closed even with pressure variations or a pressure reversal.

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